AMENDMENTS TO THE CLAIMS

The following list of claims supercedes all previously submitted lists of claims.

Claims 1-31 (Canceled)

- 32. (currently amended) A method for maintaining a healthy bone structure, said method comprising administering to a patient a bone health promoting effective amounts of a medicament comprising eentaining a bone health promoting effective amount of 1-amino-3-(N,N-dimethylamino)-propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates.
- 33. (currently amended) A method as in claim 32, wherein the medicament is administered to a healthy patient.
- 34. (currently amended) A method as in claim 32, wherein the medicament is administered to a patient without osteopathies.
- 35. (previously presented) A method as in claim 32, wherein the medicament is administered to a human being or a vertebrate animal.
- 36. (currently amended) A method as in claim 32, wherein the medicament is administ<u>ered</u> to a human being at or above the age of 40 years.
- 37. (previously presented) A method as in claim 32, wherein the medicament is administered to a child.
- 38. (currently amended) A method for prevention of osteopathies in a healthy patient, said method comprising administering to a healthy patient an osteopathy preventing effective amount of a medicament comprising containing an osteopathy preventing effective amount of 1-amino-

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- 3-(N,N-dimethylamino) propylidene -1,1-bisphosphonic acid, any of its soluble salts, or any of this its hydrates.
- 39. (previously presented) A method according to claim 38, wherein the osteophathy is selected from the group comprising osteoporosis, Paget's disease, arthritis, peridental osteopenia, adolescent scoliosis, fracture, disuse osteopenia, post-transplant osteopenia, hyperparathyoidism-associated, metabolic bone disease, osteopenia of prematurity and ossification disorder.
- 40. (currently amended) A method for treatment of a patient who has recently undergone treatment with corticosteroids, said method comprising administering to said patient who has recently undergone treatment with corticosteroids a health promoting effective amount of a medicament comprising containing a bone-health promoting effective amount of 1-amino-3-(N,N-dimethylamino)-propylidene-1,1-bisphophonic acid, any of its soluble salts or any of its hydrates.
- 41. (currently amended) A method for post-treatment of osteopathies wherein an antiresorptive activity is not desired, said method comprising administering to a patient in need thereof a medicament containing a bone-health promoting effective amount of 1-amino-3-(N,Ndimethylamino)-propylident-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates.
- 42. (currently amended) A method for combating bone disease in a child, said method comprising administering to said a child with a bone disease a health promoting effective amount of a medicament comprising a bone-health promoting effective amount of 1-amino-3-(N,N-dimethylamino)-propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates hydrages.
- 43. (previously presented) A method according to claim 42, wherein the bone disease is selected from the group comprising osteoporosis, Paget's disease, arthritis, peridental osteopenia, adolescent scoliosis, fracture, disuse osteopenia, post-transplant osteopenia, hyper-

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parathyoidism-associated osteopenia, drug-induced osteopenia, nutritional osteopenia, metabolis bone disease, osteopenia of prematurity and ossification disorder.

- 44. (currently amended) A method as in claim 42, wherein after the administration of medicament to the patient [[-]] the 1-amino-3- (N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, or any of its soluble salts or any of its hydrates are present at extracellular concentrations in a range of between 10⁻⁶M and 10⁻¹⁰M.
- 45. (previously presented) A method according to claim 44, wherein 1-amino-3- (N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, or any of its soluble salts or any of its hydrates, are present at extracellular concentrations in a range of between 10⁻⁷M and 10⁻⁹M.
- 46. (previously presented) A method according to claim 44, wherein 1-amino-3- (N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, or any of its soluble salts or any of its hydrates, are present at an extracellular conentration of about 10 s/M.
- 47. (withdrawn) A method for stimulation of those signaling cascaes and reaction mechanisms mediating the action of 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, or any of its soluble salts or any of its hydrates, which can be blocked by Ca²⁺-channel blockers, said method comprising administration of stimulating effective amount of a medicament comprising 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, or any of its soluble salts or any of its hydrates.
- 48. (withdrawn) A method according to claim 47, wherein the Ca²⁺-channel blockers are selected from the group comprising nifedipine and verapamil.
- 49. (withdrawn) A method according to claim 47, wherein 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, is administered in doses of 0.01 to 1000 mg/oral application.

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- 50. (withdrawn) A method according to claim 49, wherein 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, is administered in doses of 12.5 to 75 mg/oral application.
- 51. (withdrawn) A method according to claim 49, wherein 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, is administered in doses of 0.02 to 200 mg/parenteral application.
- 52. (withdrawn) A method according to claim 51, wherein 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, is administered in doses of 2.5 to 15 mg/parenteral application.
- 53. (withdrawn) A medicament for mobilization of Ca²⁺-ions from IP₃-sensitive stores, said method comprising administering a Ca²⁺-ion mobilizing effective amount of a medicament comprising 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates.
- 54. (currently amended) A method for prevention or treatment of a bone disorder, said method comprising administering to a patient a medication comprising (a) a bone-health promoting effective amount of 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, and (b) at least one substance selected from the group consisting of calcium salts, calcium citrate, calcium carbonate, other amino-substituted bisphosphonates, pharmaceutically active fluorine-containing salts, vitamins of the D-Group and their metabolites, cholecalciferol, calcifediol, calcitriol, ergocalciferol, PTH, anabolic hormones, estrogens, substances with estrogenic activity on the bone, progestogens, androgens, growth hormones, peptides with growth hormone activity, selective modulators of the estrogenic receptor, and raloxifene.
- 55. (withdrawn) A method for screening the Ca²⁺-channel blockers comprising the steps:
- treatment of cells having Ca²⁺-channels with a putative Ca²⁺-channel blocker;

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- contacting the cells with 1-amino-3-(N,N-dimethylamino) propylidene-1,1bisohosphonic acid, any of its soluble salts or any of its hydrates:
- measuring a response as a result of the contacting step.
- 56. (withdrawn) A method for screening for functional analogues of 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, comprising the steps:
 - treatment of cells having Ca²⁺-channels with Ca²⁺-channel blockers;
 - contacting the cells with the putative functional analogue which, in the absence of any Ca²⁺-channel blockers, is know to cause a Ca²⁺-ion influx into the cells;
 - measuring a response as a result of the contacting step.
- maintenance of a healthy bone structure and/or for the treatment of patients who have recently undergone treatment with corticosteroids, and/or for post-treatment of osteopathies where an anti-resorptive activity is not desired, and/or for the stimulation of those signaling cascades and reaction mechanisms mediating the action of 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates, which can be blocked by Ca²⁺-channel blockers, and/or for the mobilization of Ca²⁺-ions from IP₃-sensitive stores, comprising: administering 1-amino-3-(N,N-dimethylamino) propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates along or in combination with a pharmaceutical carrier to a

patient, the 1-amino-3-(N,N-dimethylamino) — propylidene-1,1-bisphosphonic acid, any of its soluble salts or any of its hydrates being administered in doses of 0.1 to 1000 mg/oral application

57. (withdrawn) A method for the selective modulation of osteoblasts and/or for the

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or 0.02 to 200 mg/parenteral application.

- 58. (New) The method of claim 42, wherein said medicament is administered in doses of 0.01-1000 mg per oral application.
- 59. (New) The method of claim 58, wherein said medicament is administered in doses of 12.5 75 mg per oral application.

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